Domestic Washer—Technical Information

MAV551EEW*, MAV5758EW*, MAV5920AG*, MAV5920EW*, MAVT546EW*, NAV8805EW*

- Due to possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this unit.
- Refer to Service Manual 16026502 for detailed installation, operating, testing, troubleshooting, and disassembly instructions.

⚠ CAUTION

All safety information must be followed as provided in this Technical Sheet and in Service Manual 16026502.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to unit and discharge capacitor before servicing, unless testing requires it.

Models	MAV551EEW* NAV8805EW*	MAV5920AG*	MAV5758EW* MAV5920EW* MAVT546EW*
Power Source			
Voltage AC	120 VAC	240 VAC	120 VAC
Amperage	11.5 A	11.5 A	11.5 A
Frequency	60 Hz	50 Hz	60 Hz
Motor horsepower	½	½	½
Cabinet Dimensions			
Height–overall	44”	44”	44”
Height with lid open	53-$^1/_2$”	53-$^1/_2$”	53-$^1/_2$”
Height of cabinet	36”	36”	36”
Width	27”	27”	27”
Depth with rear assembly	27”	27”	27”
Weight			
Uncrated	136 lbs.	136 lbs	136 lbs.
Features			
Wash cycles	4	5	5
Water temperatures	4	4	4
Water levels	Infinite	Infinite	Infinite
Motor speed	2 speeds	2 speeds	2 speeds
Spin speed (revolutions per minute)	413/620 rpm	413/620 rpm	413/620 rpm
Wash speed (oscillations per minute)	58-88 opm	58-88 opm	58-88 opm
Capacity	3.3 cubic feet	3.3 cubic feet	3.3 cubic feet

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Component Testing Information

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Resistance and voltage checks of components listed below can be made at PS5 on the control board.
Note: When making resistance checks on the components listed below, washer must be unplugged and PS5 connector disconnected from control board.

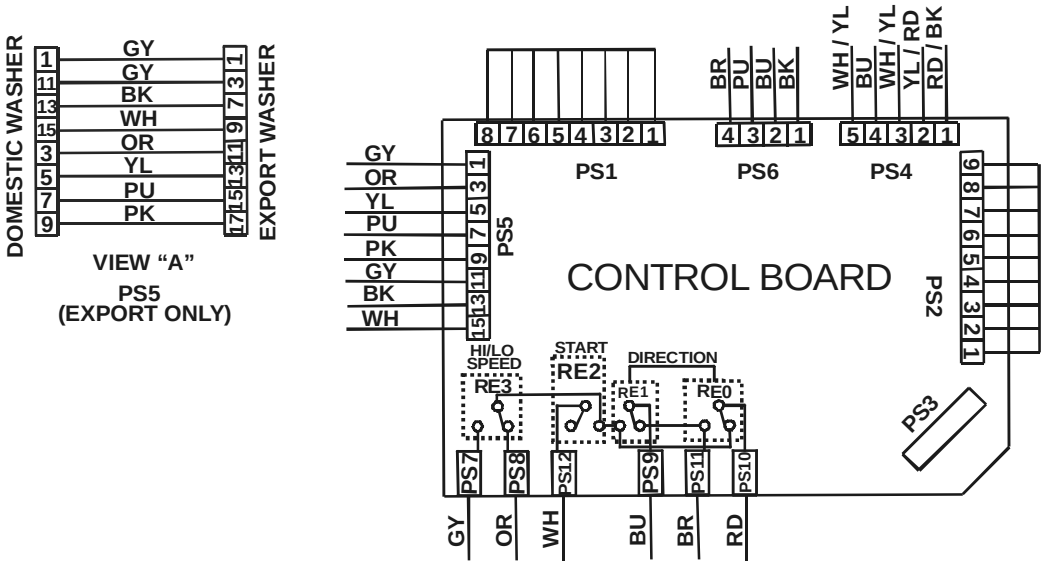
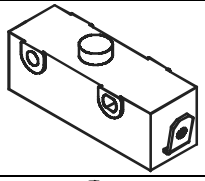
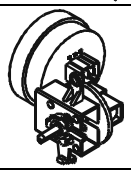
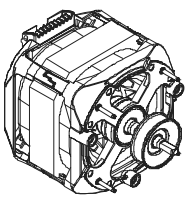
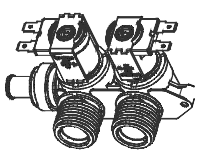


Illustration	Component	Test Procedure	Results
	AC Power	With the unit plugged in, check source voltage at Pin #15 WH and Pin #13 BK of PS5 on the control board.....	120 V AC (240 V AC - Export)
	Lid Switch	With the unit plugged in, check voltage at Pin #5 YL and Pin #15 WH of PS5.....	120 V AC (240 V AC - Export)
	Pressure Switch	With unit plugged in and the tub empty, check voltage at Pin #3 OR and Pin #15 WH of PS5.....	120 V AC (240 V AC - Export)
	Motor	Unplug washer, disconnect harness at PS5 and test from wire insertion side of harness. Run winding - PS7 GY and Pin #5 YL of PS5..... Start winding - PS9 BU and PS10 RD.....	 1.5 ohms 4.0 ohms without capacitor
	Water Valves	Unplug washer, disconnect harness and test resistance from wire insertion side of harness. (Hot valve) Pin #9 PK of PS5 and Pin #3 OR of PS5..... (Cold valve) Pin #7 PU of PS5 and Pin #3 OR of PS5..... (Thermistor) Pin #1 GY and Pin #11 GY of PS5.....	 1120 ohms 1120 ohms 53000 ohms @ 70F

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Service Specifications

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Fabric Selection

Soil Level - Approximate Agitation Times, in minutes

	Light	Normal	Heavy	Extra Heavy
Quick Wash Gentle/Fast	2	4	6	8
Hand Wash Ex. Gentle/Slow	Intermittent 6	Intermittent 9	Intermittent 12	Intermittent 15
Delicates Gentle/Slow	6	9	12	15
Permanent Press Medium/Slow	9	12	15	21
Regular Medium/Fast	9	15	18	24
Whites & Towels Normal/Fast	9	15	18	24

Agitation Speeds

Gentle	58 opm (oscillations per minute)
Ex. Gentle	Intermittent 58 opm
Medium	Cycles between 3 minutes at 88 opm and 3 minutes at 58 opm
Normal	88 opm

Spin Speeds

Fast Spin	620 +/- 25 rpm (revolutions per minute)
Slow Spin	413 +/-17 rpm

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Service Specifications

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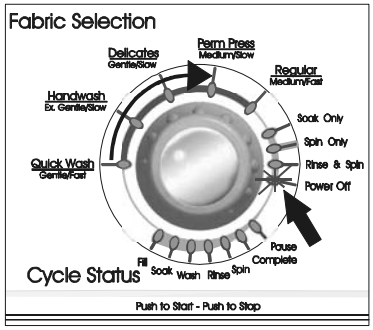
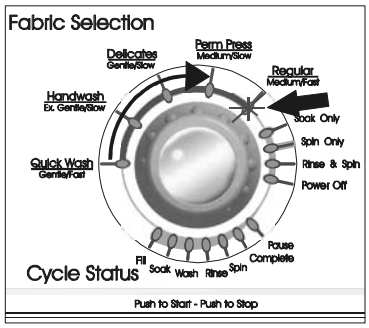
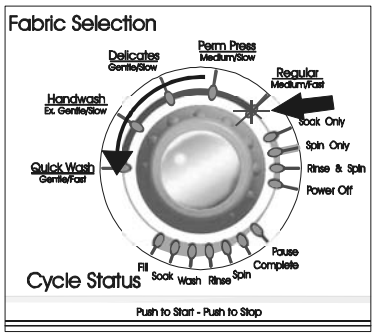
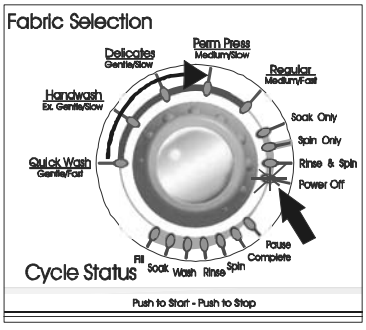
ENTER SERVICE MODE

	Rotate the Cycle Selector Knob to the ***"Power Off"*** position and **press** knob. (All LED's will be off).
	Rotate the Cycle Selector Knob clockwise past ***"Power Off"*** twice and stop at ***"Regular"***. (**<u>Watch LED's</u>**, they will illuminate as the knob is rotated).
	Rotate the Cycle Selector Knob counterclockwise back to ***"Regular"*** and **press** knob. • ***"Power Off"***, ***"Rinse & Spin"*** LED will blink (if error codes are present). ***"Regular"*** LED will be illuminated. • Model I.D. is displayed by the LED's around the bottom of the dial; see 'MODEL CODE CHART'. • Model I.D. can be redisplayed while in Service Mode by setting knob to ***"Handwash"*** and **pressing**; see 'MODEL CODE CHART' for Model I.D.

EXIT SERVICE MODE

	Rotate Cycle Selection Knob to ***"Power Off"*** and **press** knob. **<u>or</u>** Allow 5 minutes of inactivity. **<u>or</u>** Disconnect power.

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Service Specifications

WARNING

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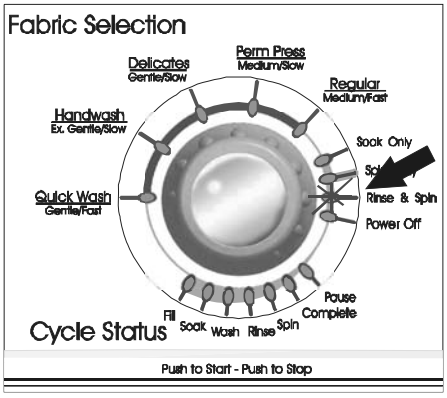
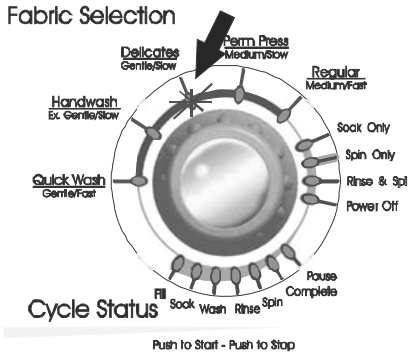
DISPLAY/CLEAR SERVICE CODES



Enter 'Service Mode' then set Cycle Selection Knob to ***"Rinse & Spin"***. **Press** knob.

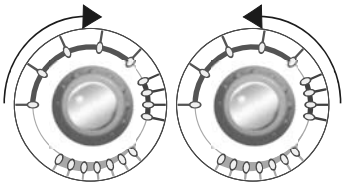
- ***"Rinse & Spin"*** LED will blink if codes other than power interrupt are present.
- Press knob to view codes. Press once for each code. Codes are displayed newest to oldest. Machine beeps three times after last service code is displayed.
- Refer to 'DIAGNOSTIC CODE CHART' for Service Codes.
- To clear codes display a code then **press** and **hold** Cycle Selection Knob until machine beeps twice. ***"Rinse & Spin"*** LED will stop blinking.

CONSOLE SWITCH TEST

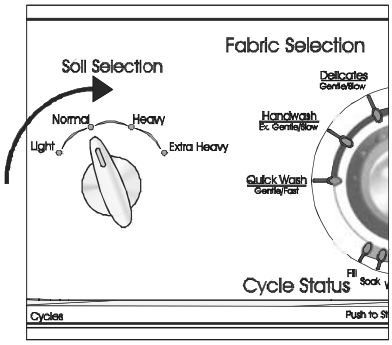


Enter 'Service Mode' then set Cycle Selection Knob to ***"Delicate"*** and **press** knob.

- ***"Power Off"*** LED blinks.
- ***"Pause"*** and ***"Delicates"*** LED's are illuminated.



Rotate the Cycle Selection Knob clockwise for ascending, and counterclockwise for descending test mode. Rotate 32 clicks in the same direction to complete the test.



Press the Cycle Selection Knob to activate the test for the rotary switches. The test begins with the rotary switch immediately to the left of the Cycle Selection Knob. Rotate the switch in either direction. The LED's illuminate around the bottom of the Cycle Selection Knob for each switch position.

NOTE: Any attempt to move a knob or switch other than the one being tested results in a chirp sound.

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Service Specifications

WARNING

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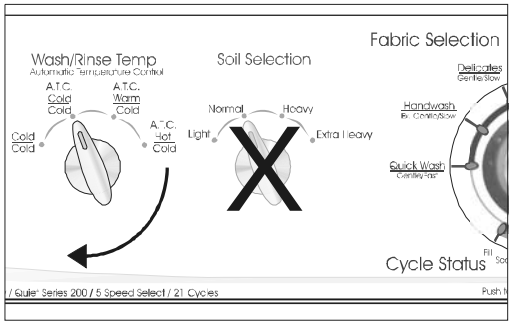
CONSOLE SWITCH TEST CON'T

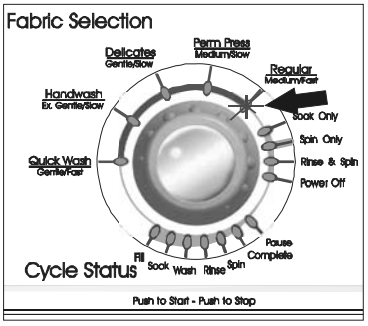


Press the Cycle Selection Knob. The test continues with the switch immediately to the left of the previous switch tested. Repeat rotating the switch and monitoring the LED's around the bottom of the Cycle Selection Knob. Continue **pressing** the Cycle Selection Knob for each switch tested right to left until all rotary switches are tested.

NOTE: The Water Level Switch is not included in this test.

- After the last rotary switch is tested the next time the Cycle Selection Knob is **pressed** the test will continue with the rocker switches. Continue **pressing** the Cycle Selection Knob and testing switches until the last switch is tested. When all switches have been tested the ***"Complete"*** LED will illuminate.

SERVICE CYCLE



Enter 'Service Mode' then set Cycle Selection Knob to ***"Regular"*** and **press** knob.

- ***"Fill"*** and ***"Wash"*** LED's illuminate. Hot water fill.
- **Press** knob, ***"Fill"*** and ***"Rinse"*** LED's illuminate. Cold water fill.
- **Press** knob, ***"Fill"***, ***"Wash"***, and ***"Rinse"*** LED's illuminate. Selected wash temperature fill.
- **Press** knob, ***"Wash"*** LED illuminates. Slow agitation.
- **Press** knob, ***"Wash"*** LED blinking. Fast agitation.
- **Press** knob, ***"Spin"*** LED illuminates. Slow spin.
- **Press** knob, ***"Spin"*** LED blinking. Fast spin.
- **Press** knob, ***"Complete"*** LED illuminates.
- **Press** knob, exit back to 'Service Mode'.

NOTE: Fills are skipped if Pressure Switch is satisfied. Press knob until ***"Pause"*** LED begins blinking to pause cycle.

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Service Specifications

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NOTE: Codes displayed but not listed should be ignored.

DIAGNOSTIC CODE CHART

Service Code Description	Service Code	Fill	Soak	Wash	Rinse	Spin	Complete	Pause
Model ID Unknown, Default model of 31 used	31	○	○	●	●	●	●	●
Rotary Switch 3 left of encoder failed at startup	28	○	○	●	●	●	○	○
Rotary Switch 2 left of encoder failed at startup	26	○	○	●	●	○	●	○
Rotary Switch 1 left of encoder failed at startup	25	○	○	●	●	○	○	●
Incorrect rotary switch position seen	24	○	○	●	●	○	○	○
Fill time less than 2 seconds	22	○	○	●	○	●	●	○
Fill time exceeded 18 minutes	21	○	○	●	○	●	○	●
Motor Thermal protector opened	19	○	○	●	○	○	●	●
Motor Thermal protector opened more than 5 times during a cycle	18	○	○	●	○	○	●	○
Thermistor Possible Short	17	○	○	●	○	○	○	●
Thermistor Possible Open	16	○	○	●	○	○	○	○
Thermistor out of range	15	○	○	○	●	●	●	●
Power Failure detected	1	○	○	○	○	○	○	●
No code	0	○	○	○	○	○	○	○

MODEL CODE CHART

Model Numbers	Fill	Soak	Wash	Rinse	Spin	Complete	Pause
MAV546E	○	●	○	○	○	●	●
MAV5920 AGW (INT)	○	●	○	○	●	○	○
MAV508DE, MAV551E	○	●	○	○	●	○	●
MAV5758, MAV5858	○	●	○	○	●	●	○
MAV5920E	○	●	○	○	●	●	●
NAV8805	○	●	○	●	○	●	●

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Service Specifications

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Noisy and/or Vibration/Walking

- Check for proper installation and leveling of unit.
- Legs properly adjusted and locked with no damage.
- Stabilizer rear legs secure and locking properly (not jamming).
- Pads on feet of leveling legs.
- Solid and secure flooring.
- Check condition of belt.
- Check transmission pulley for correct Thrust Bearing adjustment.
- Check transmission for spin bearing noise.
- Check center tub seal.
- Check agitator for correct installation.
- Check the suspension springs are properly installed and lubricated.
- Check for loose screws on the cabinet.
- Check base is flat against floor.

Over Fill

- Check water pressure to washer is 20 PSI minimum.
- Disconnect power cord. Replace Water Valve if it continues to flow.
- Check Pressure Switch for proper operation.
- Check Pressure Switch air hose for leaks damage or obstruction.

Finger Faucet

- Faucet will not operate with washer set to Hot/Cold.

Wrong Water Temperature

- Run the Service Cycle to verify water temperatures.
- Check that both faucets are turned on fully.
- Make sure water heater is set to deliver a minimum of 120°F (49°C) hot water at the tap. Also check water heater capacity and recovery rate.
- If the water heater is located a long distance from washer, the water line may need to be purged prior to starting wash cycle.
- Check for reversed inlet hoses at the faucet or water valve.
- Check wiring at the Water Valve, Timer, and ATC.

Will Not Spin/Spin Speed Too Slow

- Check power supply to washer is between 108V to 132V with a load on the circuit.
- Check slow spin speed is not selected.
- Refer to Service Cycle and check spin speeds.
- Check condition of drive belt.
- Check drain system in the home is functioning properly.
- Check for blocked or kinked drain hose.
- Check for binding Tub Seal.
- Check brake is disengaging properly.
- Check between tubs for something contacting spinner.
- Check for proper adjustment of the Thrust Bearing.
- Check for broken impeller on Drain Pump.
- Perform Torque Test.
- When washer passes all checks place a one pound unbalance weight in washer and check for 600 RPM. If washer fails check brake and cam adjustments. Replace Transmission if brake and cam adjustments are ok.

Will Not Run

Will Not Run or Start

- Plug cord into live electrical outlet. Check for proper voltage.
- Check fuse or reset circuit breaker.
- Check water supply is working.
- Check water valve connections are good.
- Check the line filter and water valve filter.
- Check if Lid Switch is functional. Lid must be closed before washer will operate.
- Check Control Board is operating properly.
- Check drive motor is operating properly.
- Check for a blown thermal fuse.
- Check for obstructions in Drain Pump.
- Turn transmission pulley by hand. If locked in agitation direction, replace transmission.
- Power supply to washer is between 108V and 132V during a load on circuit.

No Water Fill

- Check to make sure water supply is turned on fully.
- Check electrical circuit and connections at the Water Valve, and Pressure Switch.
- Check for kinks in inlet hoses.
- Check for clogged inlet screens.
- Check Water Valves separately for fill.
- Check for low water pressure. May be dependent on pressure entering home. Variations may occur due to usage in the home at the time machine is used.
- Check for frozen pipes and hoses.
- Check resistance of Water Valve coils.
- Check for loose connections at the Pressure Switch or on the Machine Control Board.

Will Not Drain

- Check for restricted drain system.
- In cold climates check for frozen drain hose.
- Check tub to pump hose for twist in hose.

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Wiring Diagram and Schematic

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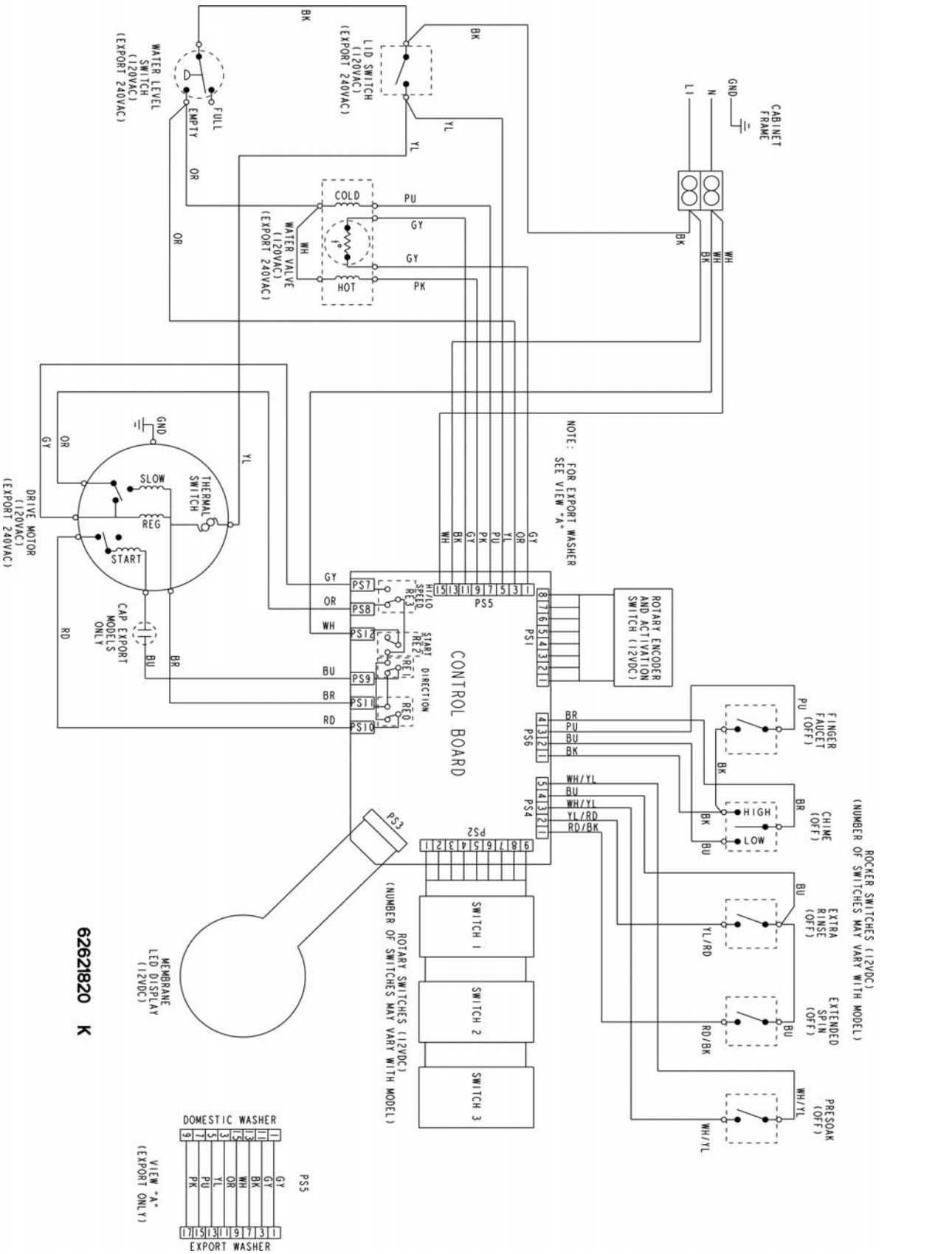

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